Finding Patterns and Rules

Name: _____ Date: _____

Instructions: Look carefully at each number pattern. Write the next two numbers in the sequence, then write a rule to describe the pattern.

Part A: Continue the Pattern

1. 3, 6, 9, 12, 15, _____, _____

2. 5, 10, 15, 20, 25, _____, _____

3. 2, 4, 6, 8, 10, _____, _____

4. 1, 4, 7, 10, 13, _____, _____

5. 50, 45, 40, 35, 30, _____, _____

Part B: Write a Rule

Describe each pattern using words or symbols. (Example: add 5 each time, or n + 5)

1. Rule: _____

2. Rule: _____

3. Rule: _____

4. Rule: _____

5. Rule: _____

Part C: Complete the Tables

Find the pattern and fill in the missing numbers.

Table 1:

Input	Output
1	4
2	8
3	12

Table 2:

Input	Output
1	6
2	7
3	8

4	_____
5	_____

Rule: _____

4	_____
5	_____

Rule: _____

🌟 Challenge

Create your own number pattern and write the rule:

My pattern: _____, _____, _____, _____, _____, _____, _____

My rule: _____